AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 24 (Canceled)

Claim 25 (Currently Amended): A crawler belt bushing, comprising:

a steel having a carbon content equal to those of medium carbon steels and/or eutectoid steels, which is 0.35 wt% or more;

quench hardened layers formed so as to extend toward its wall core region from its outer circumferential surface and from its inner circumferential surface respectively; and

a soft layer formed in the core region between said quench hardened layers; and

intermediate layers formed between said soft layer and each said quench hardened layer;

said quench hardened layers and said soft layer being formed by: (a) increasing the cooling rate of the outer circumferential surface in order to reduce heat capacity at the core and by second

cooling of the workpiece from its outer circumferential surface which is started a certain time after

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the first cooling and/or (b) increasing the cooling rate of the outer circumferential surface by first

cooling of the workpiece from its inner circumferential surface in order to partially make the core

unhardenable by utilizing the mass effect of the wall of the workpiece and by second cooling of the

workpiece from its outer circumferential surface which is started a certain time after the first cooling,

wherein the quench hardened layer of the outer circumferential surface has a depth greater than the

depth of the quench hardened layer of the inner circumferential surface,

said core region having said soft layer, said soft layer being attached to and between

said inner and outer circumferential surfaces and

said soft layer being composed of a structure including pearlite and banite, which are

precipitated during cooling from the quenching temperature,

said bushing being low temperature tempered.

Claim 26 (Original): A crawler belt bushing according to claim 25, wherein the hardened

depth of the outer circumferential surface is not less than 1.1 times the hardened depth of the inner

circumferential surface.

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Claim 27 (Previously Presented): A crawler belt bushing according to claim 25 or 26,

wherein said steel has an alloy content within the range of DI values with which the bushing is

through hardened by simultaneous cooling of the inner and outer circumferential surfaces and with

which the hardened depth obtained by cooling from the inner circumferential surface only is about

one half the thickness of the bushing.

Claim 28 (Previously Presented): A crawler belt bushing according to claim 25, which is

tempered at high temperature such that the quench hardened layer of the inner circumferential

surface has lower hardness than the quench hardened layer of the outer circumferential surface and

wherein the surface hardness of the quench hardened layer of the inner circumferential surface is

adjusted to Vickers hardness Hv 450 to 650.

Claim 29 (Original): A crawler belt bushing according to claim 25, which is through

hardened at its upper and lower ends.

Claim 30 (Currently Amended): A crawler belt bushing, comprising a carbon 0.35 to 2.0

wt%, containing at least one of the alloying elements of Mn, Si, Cr, Mo and Ni, and made by a

method in which

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a bushing workpiece made of steel, which is through hardened by simultaneous cooling from

the outer and inner circumferential surfaces of the workpiece, is induction heated from the outer

circumferential surfaces of the workpiece, so as to raise at least the surface temperature of the inner

circumferential surface to a quenching temperature, and thereafter, a series of quenching operations

including:

firstly cooling the workpiece from the inner circumferential surface;

1. heating the workpiece from the outer circumferential surface while cooling the workpiece

from the inner circumferential surface; and

2. then, cooling the workpiece from the outer circumferential surface,

wherein said crawler belt bushing comprises

quench hardened layers formed therefrom extend extending toward the wall core region of

the workpiece from the outer circumferential surface and from the inner circumferential surface

respectively and form,

a soft layer in the core region between said quench hardened layers,

and intermediate layers formed between said soft layer and each said quench hardened layer,

said core region having a soft layer, said soft layer being attached to and between said inner

and outer circumferential surfaces, and

said soft layer being composed of a structure including pearlite and bainite, which are

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precipitated during cooling from the quenching temperature and which contain or do not contain

granular cementite dispersed therein.

Claim 31 (Original): A crawler belt bushing according to claim 30, wherein the hardened

depth of the outer circumferential surface is not less than 1.1 times the hardened depth of the inner

circumferential surface.

Claim 32 (Original): A crawler belt bushing according to claim 30, which is tempered at 140

to 350°°C after quenching.

Claim 33 (Original): A crawler belt bushing according to claim 30, which is through

hardened at its upper and lower ends.

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